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LUCENT TEC	HNOLOGIES, INC	•	SONI, KETAN S		
595 SHREWSBURY AVENUE SHREWSBURY, NJ 07702			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
Office Action Comments	10/674,123	DAS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ketan Soni	2609			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	th the correspondence ad	dress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MONT cause the application to become ABA	ATION. ply be timely filed "HS from the mailing date of this candoned (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 26 Se	entember 2003		•		
<u> </u>	action is non-final.				
3) Since this application is in condition for allowan		ers prosecution as to the	e merits is		
closed in accordance with the practice under E	•	· •	· · · · · · · · · · · · · · · · · · ·		
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Disposition of Claims					
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.	,				
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.		•			
6)⊠ Claim(s) <u>1-21</u> is/are rejected.					
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examiner	r.				
10)⊠ The drawing(s) filed on <u>09/26/2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	,		, ,		
	•				
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 		119(a)-(d) or (f).			
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* See the attached detailed Office action for a list of	or the certified copies not r	eceivea.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		ımmary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)		/Mail Date formal Patent Application			
Paper No(s)/Mail Date 11/10/2004. 6) Other:					

DETAILED ACTION

Information Disclosure Statement

The information disclosure statements submitted on Nov 10, 2004 has been considered by the Examiner and made of record in the application file.

Claim Objections

Claim 9 is objected because of following formalities.

Remove "1" from line 1 of claim 9.

Claim: 9. (New) The method of claim 8 further comprising after step (a1), determining if a status of variables selected from the group consisting of links and paths have changed since a previous update to assign the policy decision.

Examiner has prosecuted claim: 9 as follows:

Claim: 9. (New) The method of claim 8 further comprising after step (a), determining if a status of variables selected from the group consisting of links and paths have changed since a previous update to assign the policy decision.

Appropriate correction is required.

Application/Control Number: 10/674,123

Art Unit: 2609

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office Action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 5, 8 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Conway (US Patent # 7054308 B1).

Consider claim: 1 (Currently amended), Conway discloses a method, comprising the steps of:

- (a) polling at least one location in a network to obtain information indicative of a level of utilization of said at least one location (The method comprises the steps of periodically polling the information base for traffic statistics (based on use or operation), column: 3, lines: 20-22);
- (b) computing a status of utilization of said at least one location based on said. polled information and assigning a decision policy to said status (In one embodiment of the present invention, a method for estimating the call GoS at a gateway is based upon the use of dial peer traffic statistics that can be obtained by polling the dial control

Application/Control Number: 10/674,123

Art Unit: 2609

Page 4

management information base (MIB) (MIB is responsible for making decisions and maintains stats for dial peers), column: 4, lines: 66-68; Counters are used to calculate the capacity: In order to make use of the counters to calculate traffic statistics, the counters are polled periodically (to poll the information and defining the value for the given time) using a Simple Network Management Protocol (SNMP) based network management system. Letting CT (i, t) be defined as the value of "dialCtlPeerStats-ConnectTime" for dial peer i at a time t and SC (i, t) as the value of "dialCtlPeerStats-SuccessCalls" for dial peer i at time t, the following gateway performance parameters are then estimated using the polled values of CT (i, t) and SC (i, t): column: 5, lines: 46-50);

- (c) assessing a priority level of a new voice call requesting to enter the network relative to priorities of existing calls on the network (estimating the offered traffic (carried traffic is known from previous results or call pattern or order of the calls) using the estimated values for the carried traffic and the grade of service obtained in the previous estimation steps, column: 3, lines: 23-24; Method for estimating the call GoS at a gateway is based upon the use of dial peer traffic statistics that can be obtained by polling the dial control management information base (MIB) (MIB is responsible for making decisions and maintains stats for dial peers, which is used for high drop, med drop, or low drop type), column: 4, lines: 66-68); and
- "(d) Invoking said decision policy on the new voice call according to its relative 'priority

level to the existing calls on the network and the decision policy in effect at the time the new voice call requests entry to the network (In the dial-control MIB, various statistics are recorded for each dial-peer in the gateway. Whenever a new call is established through a gateway, a pair of dial-peers (MIB is responsible for making decision and transfers to the dial peers, dial peers are seized to complete the call legs that are required to form an end-to-end call) is used to establish (calling up deciding policy) a logical association at the session level between the IP and the PSTN sides of the call. Based upon the dial-peer statistics, the carried traffic is derived, column: 4, lines: 14-16; FIG. 5 is a flow chart illustrating the steps involved in calculating the carried traffic (as a row data to determine the decision) and from that result, the offered traffic and the grade of service, using as inputs the raw data files from a gateway monitoring system, column: 3, lines: 59-62; A method for estimating the call GoS at a gateway is based upon the use of dial peer traffic statistics that can be obtained by polling the dial control management information base (MIB) (MIB is responsible for making decisions and maintains stats for dial peers), column: 4, lines: 66-68).

Consider claim: 2 (Original), and as applied to claim: 1 above, Conway discloses a the method, wherein a first party initiating the new voice call is checked for proper authorization to initiate the new voice call (Whenever a new call is established through a

gateway (Gateway is capable of call control), a pair of dial-peers is used to establish a logical association at the session level between the IP and the PSTN sides of the call. Based upon the dial-peer statistics, the carried traffic is derived, column: 4, lines: 14-16; Standardized MIB (management information base) maintains various traffic statistics for each configured dial peer. Checking Accepted calls: dialCtlPeerStatsAcceptCalls, and Checking Rejected calls: dialCtlPeerStatsRefuseCalls, column: 4, lines: 14-16).

Consider claim: 5 (Currently Amended), Conway discloses a computer readable medium containing a program which, when executed, performs an operation of managing voice calls of different types of priority levels (network management system polled data file 42 is processed by a custom-developed program 43, written, for example, in Perl scripts, to provide the estimated GoS and offered traffic for each gateway as a function of the time of day, column: 8, lines: 60-62; As shown in fig: 4, the network management system 41 writes the raw data to a file 42, which is processed by a calculation program 43. The calculation program makes use of the dial peer configuration information 44, and provides the estimated grade of service for various types of priority level or services and offered traffic at each gateway at user set times at various intervals throughout the operation, column: 8, lines: 16-22), the operation comprising:

(a) polling at least one location in a network to obtain information indicative of a level of utilization of said at least one location (The method comprises the steps of periodically

polling the information base for traffic statistics (based on use or operation), column: 3,

lines: 20-22);

(b) computing a status of utilization of said at least one location based on said. polled information and assigning a decision policy to said status (counters are used to calculate the capacity: In order to make use of the counters to calculate traffic statistics, the counters are polled periodically (to poll the information and defining the value for the given time) using a Simple Network Management Protocol (SNMP) based network management system. Letting CT (i, t) be defined as the value of "dialCtlPeerStats-ConnectTime" for dial peer i at a time t and SC (i, t) as the value of "dialCtlPeerStats-SuccessCalls" for dial peer i at time t, the following gateway performance parameters are then estimated using the polled values of CT (i, t) and SC (i, t): column: 5, lines: 46-50):

- (c) assessing a priority level of a new voice call requesting to enter the network relative to priorities of existing calls on the network (estimating the offered traffic (carried traffic is known from previous results or call pattern or order of the calls) using the estimated values for the carried traffic and the grade of service obtained in the previous estimation steps, column: 3, lines: 23-24); and
- "(d) Invoking said decision policy on the new voice call according to its relative 'priority level to the existing calls on the network and the decision policy in effect at the time the new voice call requests entry to the network (In the dial-control MIB, various statistics

are recorded for each dial-peer in the gateway. Whenever a new call is established through a gateway, a pair of dial-peers (dial peers are seized to complete the call legs that are required to form an end-to-end call) is used to establish (calling up deciding policy) a logical association at the session level between the IP and the PSTN sides of the call. Based upon the dial-peer statistics, the carried traffic is derived, column: 4, lines: 14-16; FIG. 5 is a flow chart illustrating the steps involved in calculating the carried traffic (as a row data to determine the decision) and from that result, the offered traffic and the grade of service, using as inputs the raw data files from a gateway monitoring system, column: 3, lines: 59-62).

Consider claim: 8. (New) The method of claim 1 further comprising after step (a) but before step (b), step (al) includes polling the network to determine routing paths (dialpeer statistics (to determine type) that are available through polling of the dial-control Management Information Base (MIB) is used for polling, column: 4, lines: 5-6; The method comprises the steps of periodically polling the information base for traffic statistics (based on use or operation), column: 3, lines: 20-22)

Consider claim: 9. (New) The method of claim 8 further comprising after step (a), determining if a status of variables selected from the group consisting of links and paths have changed since a previous update to assign the policy decision (In a second embodiment of the invention a system utilizing the method is presented for continuously Application/Control Number: 10/674,123 Page 9

Art Unit: 2609

monitoring the grade of service and offered traffic at gateways (to translate protocol) in an internet protocol telecom network supporting voice over internet protocol, column: 3, lines: 30-32; counters are used to calculate the capacity: In order to make use of the counters to calculate traffic statistics, the counters are polled periodically (to poll the information and defining the value for the given time) using a Simple Network Management Protocol (SNMP) based network management system. Letting CT (i, t) be defined as the value of "dialCtlPeerStats-ConnectTime" for dial peer i at a time t and SC (i, t) as the value of "dialCtlPeerStats-SuccessCalls" for dial peer i at time t, the following gateway performance parameters are then estimated using the polled values of CT (i, t) and SC (i, t): column: 5, lines: 46-53).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the Examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the Examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3-4, 6, 7, 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conway (US7054308 B1) in view of Burst (US 7088677 B1).

Consider claim: 3 (Original), Conway discloses the method of indication whenever a new call is established through a gateway and authenticates but fails to teach when a second party receiving the new voice call is checked for proper identification and registration in a network transmitting the new voice call.

However in the same field of endeavor, Burst discloses the method wherein a second party receiving the new voice call is checked for proper identification and registration in a network transmitting the new voice call (The media gateway processor 402 communicates with the signaling gateway 212 to establish new calls across the IP

network, column: 11, lines: 63-65. Additionally the media gateway 202 also includes a receiver (RCV) 418. When the receiver 418 receives packets, it forwards the packets to the media gateway processor 402, column: 12, lines: 16-19; this media gateway processor also includes a congestion state table 403. The table 403 stores the current or recent congestion state of the network. The media gateway processor 402 utilizes this information in performing CAC, column: 12, lines: 1-3. If the decision is to admit (using connection admission control policy) new calls the media gateway processor 402 begins admitting new calls until the algorithm processor 420 signals that new calls should be denied, column: 12, lines: 29-32;)

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method of Burst for using the connection admission control- CAC, capable of communicating to the network devices such as router and switches for forwarding packets within network and using algorithm processor to allow or deny new calls.

Consider claim: 4 (Currently amended), Conway discloses the method of claim 1 but

fails to teach wherein if the priority level of an the existing call being entertained by a second party is lower than the priority level of the new voice call being initiated by a first party a preemption message is sent to the second party.

However in the same field of endeavor, Burst discloses wherein if the priority level of an the existing call being entertained by a second party is lower than the priority level of the new voice call being initiated by a first party a preemption message is sent to the second party (When a customer connected to a local switch 104a calls a customer connected to a second local switch 104b, the call may be directed from the calling party's local switch 104a through the tandem 108 to the called party's local switch 104b as shown in FIG. 1 by the dotted line. In a conventional PSTN network, when the network is too busy to complete a call, the calling party's local switch 104a performs connection admission control (CAC) by sending the originating terminal, telephone 102a, a busy signal. The caller knows this busy signal to mean to try the call again later when the network may not be busy, column: 10, lines: 11-15; The Per Hop Behavior-PHB is a forwarding behavior that represents queuing and servicing disciplines in the routers and PHB used with immediate forwarding flag setting, which should be mapped to a queue served by a preemptive scheduler. PHB provide a means of allocating bandwidth and buffers according to the relative requirements of the packets being transferred across the network., column: 11, lines: 37-42).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method of Burst for using the PHB with immediate forwarding flag setting, which should be mapped to a queue served by a preemptive scheduler. PHB provide a means of allocating bandwidth and buffers according to the relative requirements of the packets being transferred across the network.

Consider claim: 6 (New), Conway discloses the method of claim 4, as modified by Burst wherein the second party terminates the existing call and the decision policy is invoked on the new voice call to determine its connection status to the second party (To accurately determine the congestion of the network, the endpoint sends probe packets at the data rate VoIP call will require and records the resulting level of packet losses, terminations, jitter, or other congestion indicator. For example, in one conventional approach, the probe packets are sent in a DiffServ code point that is a low priority FEC. The data, which requires the QoS, is placed in the high priority FEC, column: 5, lines: 32-35; In another embodiment, the values of Dt (Terminated call has higher thrershold, so treated like a Dt) and Db are first compared, and a flag is stored in the table (403) denoting whether or not to accept call requests for a destination, column: 17, lines: 64-67)).

Consider claim: 7 (New), Conway discloses the method of claim 4, but fails to teach wherein if the priority of the existing call is higher than the priority of the new voice call, the new voice call is rejected.

However in the same field of endeavor, Burst discloses wherein if the priority of the existing call is higher than the priority of the new voice call, the new voice call is rejected (The Per Hop Behavior- PHB is a forwarding behavior that represents queuing and servicing disciplines in the routers and PHB used with immediate forwarding flag setting, which should be mapped to a queue served by a preemptive scheduler. PHB provide a means of allocating bandwidth and buffers according to the relative requirements of the packets being transferred across the network, column: 11, lines: 37-42; The delay algorithm processor 420 utilizes the timestamp information contained in the headers to determine whether to admit or deny new calls and forwards this information to the media gateway processor 402, column: 12, lines: 21-25).

Consider claim: 10 (New), and as applied to claim: 1, Conway discloses the method of claim: 1 except wherein the policy decision includes sub-decisions of never blocking new voice calls having at least a highest relative priority, blocking a first percentage of new voice calls when a system link utilization exceeds a first percentage of system

capacity for calls of an intermediate relative priority and blocking a second percentage of new voice calls when link utilization exceeds a second percentage of system capacity for calls of a low relative priority level.

Page 15

However in the same field of endeavor, Burst discloses the method, wherein the policy decision includes sub-decisions of never blocking new voice calls having at least a highest relative priority (The media gateway classifies the packets, setting the priority to the highest priority in the network. For example, the media gateway may used Differentiated Services (DiffServ) and set various DS code points to classify the packets, column: 6, lines: 57-60; DiffServ code points that is a low priority FEC. The data, which requires the QoS, is placed in the high priority FEC which never can be blocked, column: 5, lines: 38-39), blocking a first percentage of new voice calls when a system link utilization exceeds a first percentage of system capacity for calls of an intermediate relative priority and blocking a second percentage of new voice calls when link utilization exceeds a second percentage of system capacity for calls of a low relative priority level (The processor measures the minimum practical delay by utilizing a high-priority control packet. The processor then compares the calculated threshold delay with the actual delay experienced by bearer packets, which are transmitted using a lower priority than the priority assigned to the control packets. If the bearer packet delay exceeds the threshold delay, the communications network is congested. In one embodiment, the media gateway rejects communications request when the network is

congested. In another embodiment, the media gateway reroutes the calls over an alternative communications means, column: 8, lines: 38-39).

Page 16

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway as modified by Burst for using a media gateway capable of classifying the packets (by priority assignment to the control packets), setting the priority to the highest priority in the network for connection admission control.

Claims 11, 12, 13,14-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conway (US7054308 B1) in view of Zavalkovsky et al. (US 7027410 B2).

Consider claim: 11. (New), Conway as modified by Burst discloses the method of claim 10 except wherein there are five relative priority levels and the policy decision includes sub-decisions of never blocking new voice calls having highest or second highest relative priority blocking 100% of new voice calls when the system link utilization exceeds 99% of system capacity for calls of third highest relative priority, blocking 100%

of calls when link utilization exceeds 97% of system capacity for calls of a fourth highest relative priority level and selecting a sub-decision from the group consisting of blocking 20% of calls when the system link utilization exceeds 90% of system capacity and blocking 100% of new voice calls when link utilization exceeds 95% of system capacity for a fifth highest relative priority level.

However in the same field of endeavor, Zavalkovsky et al. discloses wherein there are five relative priority levels and the policy decision includes sub-decisions of never blocking new voice calls having highest or second highest relative priority (PHBs with immediate forwarding flag set should be mapped to a queue (4-6 quesues) served by a preemptive (Pre-emptive calling is when a PBX disconnects a low priority call to connect a high priority call.) scheduler, column: 11, lines: 47-48), blocking 100% of new voice calls when the system link utilization exceeds 99% of system capacity for calls of third highest relative priority, blocking 100% of calls when link utilization exceeds 97% of system capacity for calls of a fourth highest relative priority level and selecting a subdecision from the group consisting of blocking 20% of calls when the system link utilization exceeds 90% of system capacity and blocking 100% of new voice calls when link utilization exceeds 95% of system capacity for a fifth highest relative priority level. (In block 304, drain sizes and gueue sizes are calculated and stored in a weights table. A queue's drain size is the maximum number of bytes that may be drained from the queue in one cycle, column: 12, lines: 29-32).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method Burst for rejecting communications request when the network is congested for a low priority class further modified by Zavalkovsky et al., for maintaining a consistent per hop forwarding behavior and flag set for mapping a queue served by a preemptive calling is when a PBX disconnects a low priority call to connect a high priority call.

Consider claim: 12. (New), Conway discloses the method of claim 1 but fails to teach wherein the decision policy is distributed to one or more call control devices in the network.

However in the same field of endeavor, Zavalkovsky et al., discloses wherein the decision policy is distributed to one or more call control devices in the network (Policy Management Station (making judgment to allow or deny call) 102 is provided as only an example of one mechanism that may be used to define a domain PHB set. Policy Management Station 102 may be configured as a single component or a plurality of different distributed components that are configured to define a domain PHB set for

implementing QoS policies within a network. In addition, in certain embodiments, policy servers 106, 110 are coupled to network 128 and may communicate with edge devices 120 and 122 over network 128, column: 7, lines: 37-42).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway as modified by Zavalkovsky et al., for making judgment to allow or deny call using a Policy Management Station in the plurality of different distributed components.

Consider claim: 13 (New), Conway as modified by Burst discloses the method of claim 12, but Conway as modified by Burst is generally silent about wherein the one or more call control devices are one or more softswitches.

However in the same field of endeavor, Zavalkovsky et al., discloses wherein the one or more call control devices are one or more softswitches (The media gateway 202a c communicates with a softswitch 208, which is also known as a call agent, or media gateway controller (a controlling device), via IP network 205 and link 210, column: 11, lines: 5-7).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method Burst for using a call agent or controlling device also known as a softswitch which can be further modified by Zavalkovsky et al. for making judgment to allow or deny call using a Policy Management Station in the plurality of different distributed components.

Consider claim: 14 (New), Conway discloses the method of claim 1 but fails to teach wherein packets of information that carry the new voice call may be selectively dropped based upon the relative voice call priority level.

However in the same field of endeavor, Zavalkovsky et al., discloses wherein packets of information that carry the new voice call may be selectively dropped based upon the relative voice call priority level (PHBs with immediate forwarding flag set should be mapped to a queue served by a preemptive (Pre-emptive calling is when a PBX disconnects a low priority call to connect a high priority call.) scheduler, column: 11, lines: 47-48).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method of Zavalkovsky et al. for using a Policy Management Station in the plurality of different distributed components that can be served by a preemptive scheduler.

Consider claim: 15 (New), Conway discloses the method of claim 14 as modified by Zavalkovsky et al., wherein method further comprising the step of dropping packets of the lowest relative priority level voice calls when a buffer containing voice call data on the network is at a first percentage of total capacity (The Traffic type field 230 includes a flag that specifies whether the traffic of the behavior aggregate is elastic (level of priority) or not, column: 9,lines: 15-16; The sum of buffer factors assigned to the forwarding classes is 100% (full capacity). Within each forwarding class, the buffer factor specifies the relative drop precedence of the PHBs, column: 9,lines: 1-2).

Consider claim: 16 (New), Conway discloses the method of claim 15 as modified by Zavalkovsky et al., wherein the first percentage of total buffer capacity is approximately 50 % (when the PHB set of FIG. 2 is mapped to a 2q1p queue type, both AF11 and

AF12 are mapped to queue 2. Queue 2 should have a single threshold positioned at 50% of the queue length. This threshold would than enforce the BUFFER FACTOR relation between AF11 and AF12. If not enough thresholds are available to differentiate between the different PHB within a forwarding class, or if the threshold positions can not be set appropriately, the network administrator should be notified, and the closest approximation should be taken, column: 13,lines: 28-35).

Consider claim: 17 (New), Conway discloses the method of claim 14 as modified by Zavalkovsky et al. further comprising the step of dropping packets from intermediate priority level calls when a buffer containing voice call data on the network is at a second percentage of total capacity (The threshold position within the queue should be proportional to the buffer factors of each of the service, or alternatively should equal the reserved packets of each of the PHBs, column: 13, lines: 23-25; PHBs with immediate forwarding flag set should be mapped to a queue served by a preemptive (Pre-emptive calling is when a PBX disconnects a low priority call to connect a high priority call.) scheduler, column: 11, lines: 47-48).

Consider claim: 18 (New), Conway discloses the method of claim 17 as modified by Zavalkovsky et al., wherein the second percentage of total buffer capacity approximately 75% (The drain size of a given queue is proportional (approximating to ¾ of forwarding factor) to the sum of forwarding factor of all services mapped to this queue

in step 1. For each queue type, the queue with the smallest associated forwarding factor is assigned with a drain size of one packet size. All other queues in this queue size get a proportional drain size, according to their forwarding factors, column: 12, lines: 59-63).

Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Conway (US7054308 B1) in view of IETF Network working group -RFC2597 (http://www.ietf.org/rfc/rfc2597.txt).

Consider claim: 19, (New), Conway in view of Zavalkovsky discloses the method of claim 14, except the method further comprising the step of dropping packets from the highest relative priority level calls only if a buffer containing voice call data on the network is full.

However in the same field of endeavor, IETF RFC 2597 discloses the method of claim

14 as modified by IETF – RFC 2597 further comprising the step of dropping packets

from the highest relative priority level calls only if a buffer containing voice call data on
the network is full (In case of congestion (When Network is full), the drop precedence of
a packet determines the relative importance of the packet within the AF class. A

congested DS node tries to protect packets with a lower drop precedence value (for

related class such as AF12 or 13) from being lost by preferably discarding packets with a higher drop precedence value (AF class with high drop precedence value), page: 2, lines: 16-20).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method of IETF RFC 2597, where within each AF class, an IP packet can be assigned to one of the levels of drop precedence.

Consider claim: 20, (New), Conway in view of Zavalkovsky discloses the method of claim 14, except packets of information are handed in one class of a multi-class system, said one class having a plurality of sub-classes, each sub\-class having a respective packet dropping precedent.

However in the same field of endeavor, IETF RFC 2597 discloses a method, wherein packets of information are handed in one class of a multi-class system, said one class having a plurality of sub-classes, each sub\-class having a respective packet dropping

precedent. (Within each AF class IP packets are marked (again by the customer or the provider DS domain) with one of three possible drop precedence values, page: 2, lines: 14-16).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method of IETF RFC 2597, for using Assured Forwarding PHB, which provides forwarding of IP packets in N independent AF classes. Within each AF class, an IP packet is assigned one of M different levels of drop precedence.

Consider claim: 21, (New), Conway in view of Zavalkovsky discloses the method of claim 20, except wherein said one class is AF1 and said multi-class system is DiffServ.

However in the same field of endeavor, IETF RFC 2597 discloses wherein said one class is AF1 and said multi-class system is DiffServ (Assured Forwarding (AF- where each AF class is in each DS node allocated a certain amount of forwarding resources (buffer space and bandwidth) PHB group is a means for a provider Differentiated

Application/Control Number: 10/674,123 Page 26

Art Unit: 2609

Service domain (for different types of traffic supplied by customer) to offer different levels of forwarding assurances for IP packets (on Network) received from a customer DS domain, page: 2, lines: 4-7).

There for it would have been obvious to a person with ordinary skill in the art at the time the invention was made to incorporate a method that comprises the steps of periodically polling the information base for traffic statistics, and use that polling information and estimating the call, as well as the offered traffic, for Voice over Internet Protocol (VoIP) calls at a Public Switched Telephone Network-Internet Protocol (PSTN-IP) network gateway as taught by Conway in the method of IETF RFC 2597, for using Assured Forwarding PHB, which provides forwarding of IP packets in N independent AF classes. Within each AF class, an IP packet is assigned one of M different levels of drop precedence. Assured Forwarding (AF) PHB group is a means for a provider DS domain to offer different levels of forwarding assurances for IP packets received from a customer DS domain.

Conclusion

The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.

Application/Control Number: 10/674,123 Page 27

Art Unit: 2609

 Baj (U.S. Patent # 7,130,273) discloses: QOS testing of a hardware device or a software client.

- Meempat et al. (U.S. Patent # US 6,778,496) discloses: Distributed call
 admission and load balancing method and apparatus for packet networks.
- □ LAKKAKORPI, JANI (EP 1347603 A1) discloses: Simple admission control for IP based networks.
- □ Goodman, Lee (U.S. 7,173,910) discloses: Service level agreements based on objective voice quality testing for voice over IP (VOIP) networks.
- Benco et al. (U.S. PG PUB # US 20060133345 A1) discloses: Method and apparatus for providing multiple simultaneous VOIP call sessions for a single directory number.
- Sundqvist et al. (U.S. PG PUB # 2003/0187986, Application # 10/363628) discloses: Method for, and a topology aware resource manager in an ip-telephony system- Application # 10/363628.
- □ Wahl et al. (U.S. # 2002/0089985, Application # 09/977280) discloses: Access control unit.
- Wahl, Stefan (U.S. # US 20030103525 A1, Application # 10/285508) discloses:
 IP platform for advanced multipoint access systems.

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ketan Soni whose telephone number is (571) 270-1782.

The Examiner can normally be reached on Monday-Thursday from 6:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Rafael Pérez-Gutiérrez can be reached on 571-272-7915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Ketan Soni

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March 15, 2007.